REQ NO 5-9062-3

NUCLEAR ACTIVATION SERVICES LIMITED

1280 MAIN STREET WEST, HAMILTON, ONTARIO, L8S 4K1

PHONE (416) 522-5666 TELEX 06-986947

CERTIFICATE OF ANALYSIS

OSQ85-00056

TO: CANADA CENTRE FOR MINERAL AND ENERGY TECHNOLOGY
ATTN: DR. STEGER
CANADIAN CERT. REF. MATERIALS
555 BOOTH STREET
OTTAWA, ONTARIO
K1A 0G1

CUSTOMER NO. 283/01/01

DATE SUBMITTED
07-JUN-85

REPORT: 5029 FILE NUMBER: 5757

5 STANDARDS

WERE ANALYZED AS FOLLOWS:

ELEMENTS	DETECTION LIMIT	UNITS	METHOD	ELEMENTS	DETECTION LIMIT	UNITS	METHOD
THO2	0.0010	%	INAA	EU2O3	0.0010	%	INAA
U	1.0000	PPM	DNC	GD2O3	0.0010	%	PGAMMA
LA2O3	0.0010	%	INAA	TB4O7	0.0010	%	INAA
CE2O3	0.0010	%	INAA	DY2O3	0.0010	%	INAA
PR6O11	0.0010	%	INAA	YB2O3	10.0000	PPM	INAA
ND2O3	0.0010	%	INAA	LU2O3	10.0000	PPM	INAA
SM2O3	0.0010	%	INAA				

COMMENTS:

NOTE: 0.5 GRAM ALIQUOTS WERE ANALYZED BY INSTRUMENTAL NEUTRON ACTIVATION EXCEPT U BY DELAYED NEUTRON COUNTING AND GD BY PROMPT GAMMA ANALYSIS.
BOTTLE NUMBER 407.

DATE 04-NOV-85

NUCLEAR ACTIVATION SERVICES LIMITED

CERTIFIED BY .....

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD ALL SAMPLES ***
IRRADIATED SAMPLES AFTER 30 DAYS. ANY OTHER MATERIAL AFTER 120 DAYS.

NUCLEAR ACTIVATION SERVICES LIMITED

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SAMPLE NUMBERS

ELEMENT & UNITS	** OKA-2-1**	** OKA-2-2**	** OKA-2-3**	** OKA-2-4**	** OKA-2-5**
THO2 %	3.38	3.38	3.37	3.44	3.36
U PPM	250	259	257	263	261
LA2O3 %	5.76	5.78	5.82	5.93	5.78
CE2O3 %	14.2	13.9	13.8	14.3	14.0
PR6O11 %	1.2	1.8	1.6	1.5	1.4
ND2O3 %	7.26	7.18	7.16	7.55	6.47
SM2O3 %	1.05	1.02	0.993	1.05	1.04
EU2O3 %	0.231	0.220	0.226	0.233	0.222
GD2O3 %	0.550	0.560	0.540	0.420	0.450
T3407 %	0.068	0.068	0.070	0.073	0.069
DY2O3 %	0.127	0.131	0.133	0.135	0.129
YB2O3 PPM	123	107	116	118	121
LU2O3 PPM	17.0	14.8	19.3	17.0	17.0